	C.U.SHAH UNIVERSITY	
Subject	Wadhwan City	e: 27/06/201
Subject Code : 5PS02PHA1 Summer Examination-2014 Date: 2   Subject Name:: Pharmaceutical Analysis- I Branch/Semester:- M.Pharm/II Time:0   Examination: Regular Time:0		
	of Programmable calculator & any other electronic instrument is prohibited.	
	uctions written on main answer Book are strictly to be obeyed.	
-	neat diagrams & figures (If necessary) at right places me suitable & Perfect data if needed	
	SECTION I	
Q-1	Define Following terms/Concepts	7
	a) Precision	
	b) Accuracy	
	c) LOD	
	d) LOQ	
	e) Ruggedness	
	f) Robustness a) Internal Standard for Analytical method	
	g) Internal Standard for Analytical method	
Q-2	LAH UNIVER	
	a) Write a note on Quality control test for Lipsticks and Face	(5)
	powder	
	b) Write a note on quality control test for Hair oil, Hair	(5)
	Colour, Hair Straitening Cream and Hair Cream	
	c) Write a note on QC test for Body lotion and Shampoo	(4)
	OR	
Q-2		
-	a) Write a note on quantitative estimation of Hydroxyl grou	p (5)
	containing compound	
	b) Write a note on quantitative estimation of Carboxylic acid	d (5)
	Group containing compounds	
	c) Write a note on quality control of Raw material used in	(4)
0.2	cosmetics	14
Q-3	a) Define Dressmustive and Antionidents Fundair with diff	14
	a) Define Preservative and Antioxidants. Explain method of analysis for any two preservative and antioxidants.	
	<ul><li>b) Write a note on quality control of radiopharmaceuticals.</li></ul>	
	OR	
0.2		
Q-3	a) What is the use of emulsifier and stabilizer in	14
	pharmaceutical formulation? Write a note on qualitative an	d
	quantitative estimation of emulsifier and stabilizer.	iu.
	b) Define colouring agent. What are the different types of	
	colouring agents? Give 2 examples of each class. Write a	
	note on estimation of colouring agents	
	Page <b>1</b> of <b>2</b>	



## **SECTION II**

Q-4	a)	What will happen to the atomic number and atomic mass of	3		
		the atom when it will omit a alpha ( $\alpha$ ), or a beta ( $\beta$ ) or a gemma ( $\gamma$ ) ray?			
	b)	What are different types of production of radioactive nuclide?	2		
	c)	Define various units of radioactivity.	2		
Q-5					
		Write a brief note on ICH Q1 guideline.	5		
	,	Write a note on impurity profiling using LC-MS	5		
	c) V	Write a case study on impurity profiling	4		
		OR			
Q-5					
	a)	Write a note on Stability indicating Assay by Acid hydrolysis, B	ase		
		hydrolysis and Oxidative hydrolysis	5		
		Discuss the solid state properties associated with bulk level	5		
	c)	What is importance of SIA? Write a note on Stability indicating	Assay by		
		photolytic hydrolysis, thermal hydrolysis.	4		
Q-6		· · · · · · · · · · · · · · · · · · ·	14		
		a) Give a detail account on Quality control test of containers			
		b) Give a detail note on QC test of lables, label adhesive and ca	rtons.		
		OR			
Q-6			14		
	a)	Give introduction of ICH with a detail note on the			
		harmonization process.			
	b)	Give a note on impurity isolation and characterization using			
		LC-IR and LC-NMR			
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